

SF-350001-S27

Band42, RF SAW Filter

Revision 0: February, 2019



- ☐ Electrical Characteristics
 - ☐ Package Dimensions
 - ☐ Testing Environment
 - ☐ Frequency Characteristics
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SAWNICS Inc.

112 Seonggeo-Street, Seonggeo-eup, Seobuk-gu, Cheonan-si, Chungcheongnam-do, South Korea
/ 31044Tel : +82-41-550-9372 / Fax : +82-41-622-9116 / www.sawnics.com

Revision History

[illegible]

□ Electrical Characteristics

Maximum Ratings

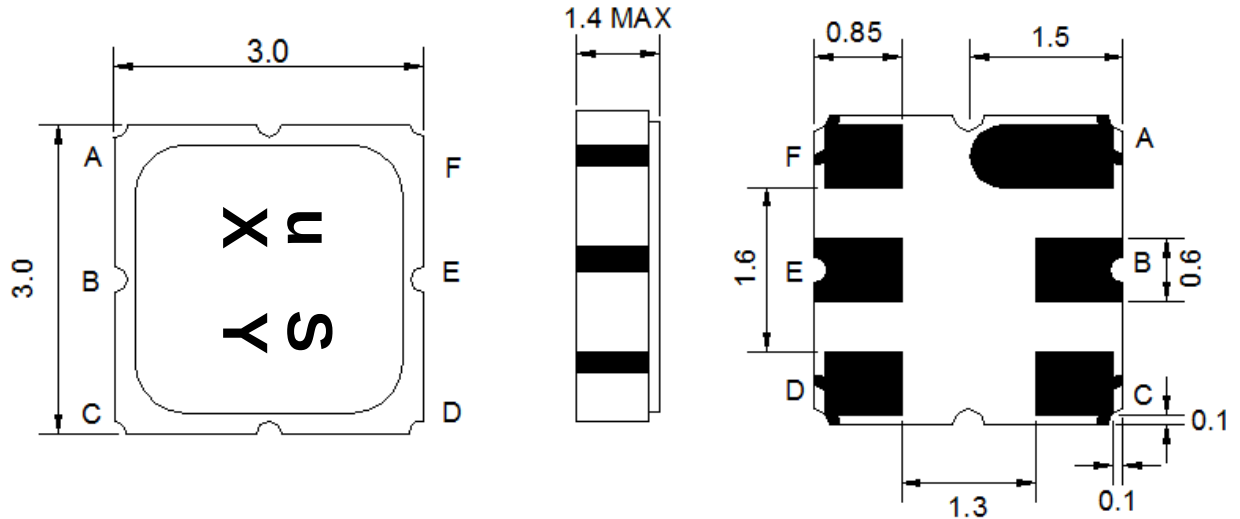
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+105
Storage Temperature Range	°C	-40	-	+105
Maximum DC Voltage	V	-	-	0
Maximum Input Power (3400.0 ~ 3600.0 MHz)	dBm	15dBm, CW 100000 h @95°C 22dBm, CW 1000 h @95°C 23dBm, CW 2 h @95°C		
Source Impedance (unbalanced) ⁽¹⁾	Ω	-	50	-
Load Impedance (unbalanced) ⁽¹⁾	Ω	-	50	-
Package type & size	S27			
Length x Width	-	-	3.0 x 3.0	-
Height	mm	-	-	1.4

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	3500.0	-
Insertion Loss within 3400.0 ~ 3600.0 MHz	dB	-	3.7	5.0
Amplitude Ripple within 3400.0 ~ 3600.0 MHz	dB _{p-p}	-	0.4	3.0
Group Delay Variation within 3400.0 ~ 3600.0 MHz	ns _{p-p}	-	1.5	15
Absolute Group Delay within 3400.0 ~ 3600.0 MHz	ns	-	2	30
Attenuation (Reference level from 0dB)				
10.0 ~ 2550.0 MHz	dB	23	27	-
2550.0 ~ 2690.0 MHz	dB	25	28	-
2690.0 ~ 3000.0 MHz	dB	25	29	-
3000.0 ~ 3200.0 MHz	dB	10	31	-
3800.0 ~ 3850.0 MHz	dB	10	40	-
3820.0 ~ 4200.0 MHz	dB	20	38	-
4200.0 ~ 5000.0 MHz	dB	25	32	-
5000.0 ~ 6000.0 MHz	dB	25	30	-
VSWR within 3400.0 ~ 3600.0 MHz	-	-	2.1	2.5
Temperature Coefficient	ppm/°C	-	-80	-

Notes : (1)No Matching Network (Ref. Testing Environment Circuit as shown below).

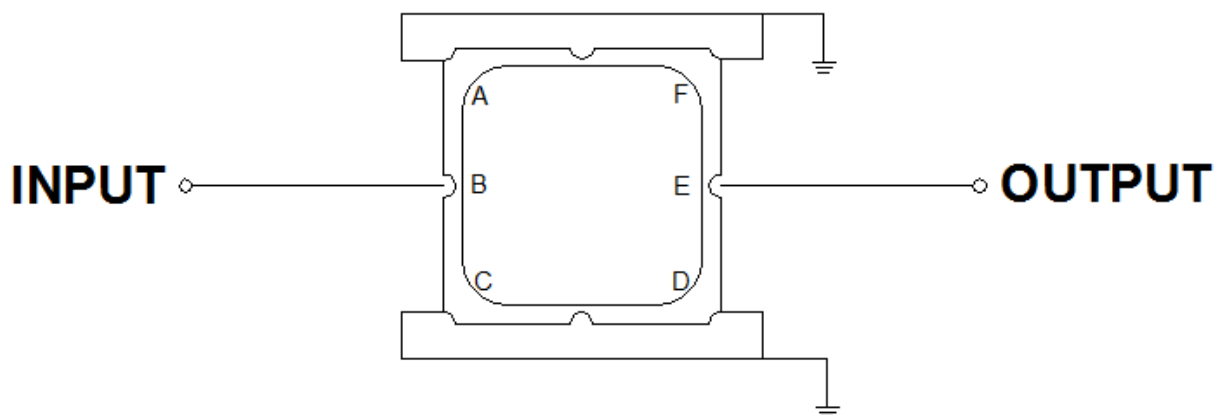
Package Dimensions



Marking Descriptions	
u	Wireless Application
S	Series Number
X	Date Code(Year)
Y	Date Code(Month)

Pin Description	
A,C,D,F	Ground
B	Input
E	Output

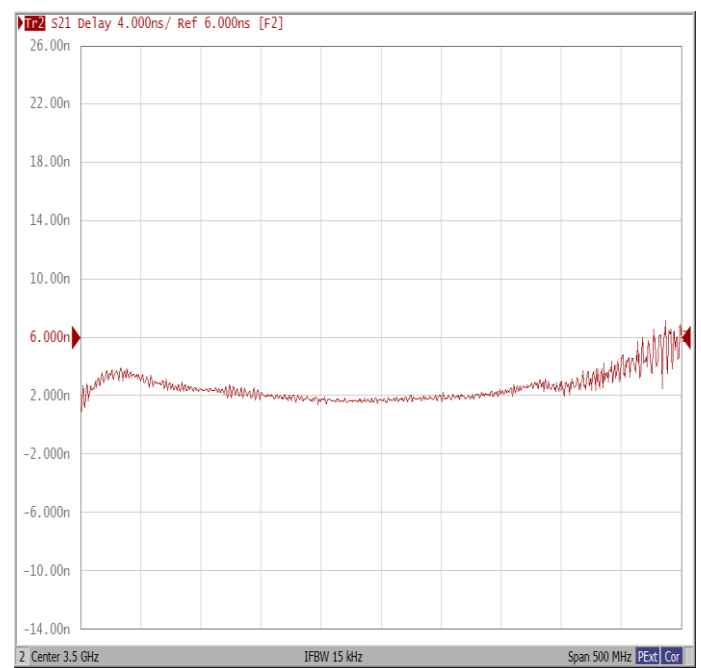
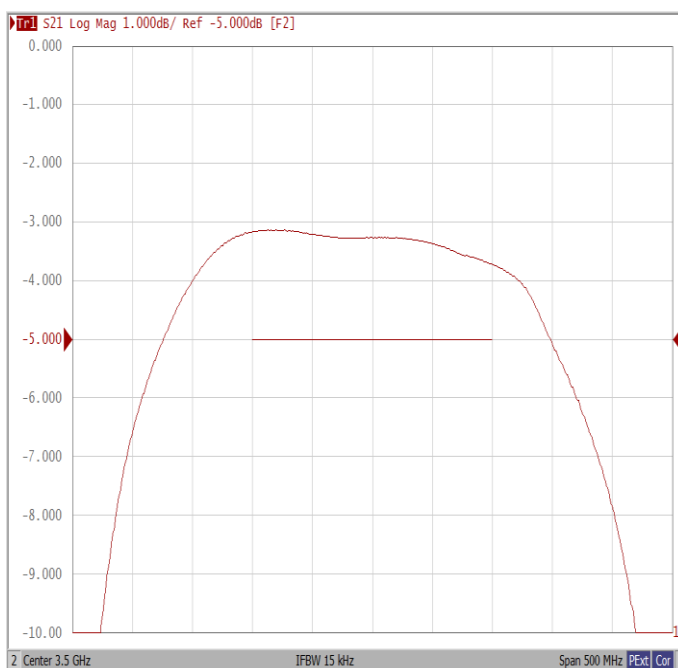
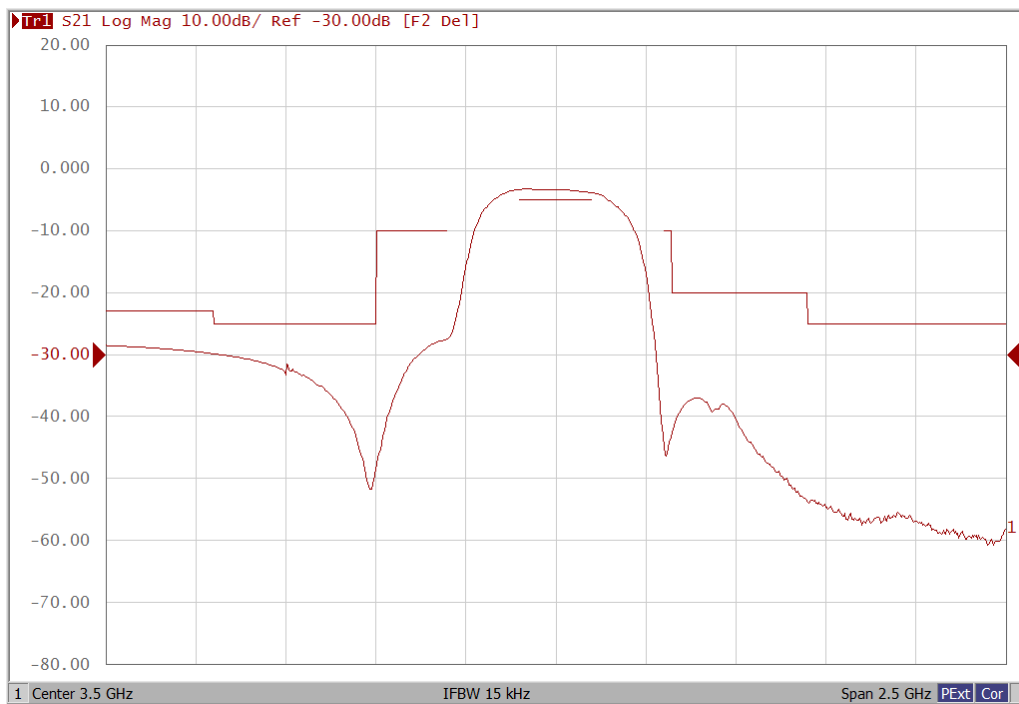
Testing Environment



Source & Load Impedance: 50 Ω

Frequency Characteristics

Frequency Response





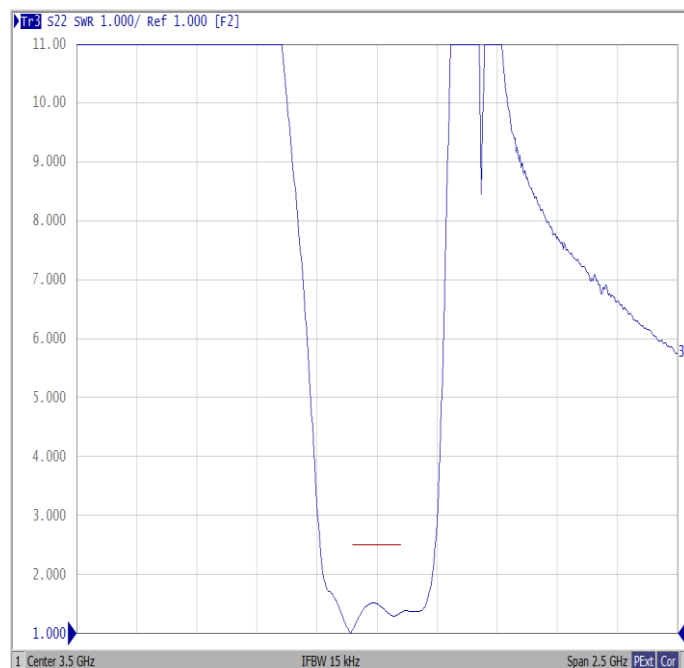
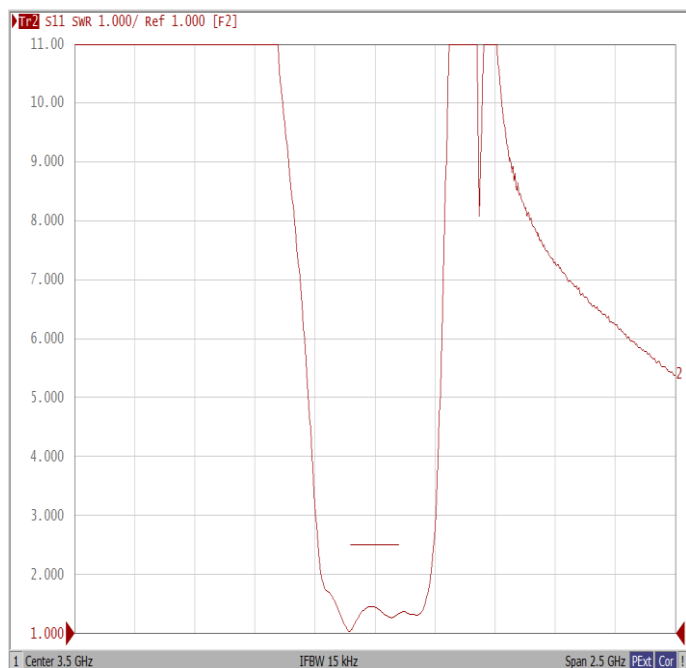
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Data Sheet(Rev 0)

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VSWR



Smith Chart

